

WHAT IS CLAIMED IS:

1. A display utilizing cholesterin liquid crystal polymer for enhancing contrast, the display comprising a transparent substrate and a transparent bus-bar overlaid on the substrate, an electric hole conductive layer being overlaid on the bus-bar, at least one lighting layer being overlaid on the electric hole conductive layer, an electronic conductive layer being overlaid on the lighting layer, a cathode electrode layer being overlaid on the electronic conductive layer, an insulating packaging layer being disposed on the cathode electrode layer, the electric hole conductive layer being painted with polymer electric hole conductive material and coordinated on the bus-bar, the lighting layer having cholesterin liquid crystal phase and being made on the coordinated electric hole conductive layer, the lighting layer going through backfire to be arranged into such a structure that the cholesterin liquid crystal lighting molecules can induce and emit manual circular polarized light, a circular polarizing optical coating being attached to one face of the substrate.
- 20 2. The display utilizing cholesterin liquid crystal polymer for enhancing contrast as claimed in claim 1, wherein the polymer electric hole conductive material is discotic liquid crystals.
- 25 3. The display utilizing cholesterin liquid crystal polymer for enhancing contrast as claimed in claim 1, wherein the electric hole conductive layer is directionally rubbed to have ability to coordinate.

4. The display utilizing cholesterin liquid crystal polymer for enhancing contrast as claimed in claim 1, wherein the circular polarizing optical coating is attached to a face of the substrate from which the light goes out.

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  5. The display utilizing cholesterin liquid crystal polymer for enhancing contrast as claimed in claim 1, wherein the lighting layer goes through backfire to be arranged into planer structure.

10 6. The display utilizing cholesterin liquid crystal polymer for enhancing contrast as claimed in claim 1, wherein the substrate is a glass substrate.

15 7. The display utilizing cholesterin liquid crystal polymer for enhancing contrast as claimed in claim 1, wherein the bus-bar is an ITO bus-bar.